

35905 \$/123/62/000/004/004/014 A004/A101

1.1110

AUTHOR:

Gularyan, K. K.

TITLE:

Electrospark method of threading

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 4, 1962, 27, abstract

4B148 ("Tr. Tsentr. n.-i. labor. elektr. obrabotki materialov.

AN SSSR", 1960, no. 2, 142 - 155)

TEMT: The method of electrospark threading by direct copying is effected with a working electrode in the form of a "tap" from copper, brass or cast iron with circular or axial feed. The high hydraulic resistance of removing the eresion products by this method results in a low efficiency of the electrospark threading method. This deficiency is eliminated by the developed electrospark threading method using a multiple-thread (comb-shaped) electrode. The cutting of internal threads is effected with an electrode which represents a cylinder with annular thread of the required profile which is located in parallel with the component axis. The electrode diameter is less than the diameter of the thread being cut. The electrode rotates at a high speed and is given an infeed which is perpendicular to the component axis. To generate a full thread turn, the com-

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5/123/62/000/004/004/014

Electrospark method of threading

ponent is given an axial and circular helical feed. Two control variants are possible: The working electrode is fed to the profile depth and the helical feed of the component is controlled, or the infeed is controlled at a constant helical component feed. The author describes the functional diagram of the electrospark threading of cylindrical and tapered threads using multiple-thread electrodes. A considerable increase in efficiency with this method is attained owing to the presence of a channel between the electrode and the component and by utilizing the electrode motion to eject the erosion products into the discharge channel. The author analyzes problems of electrospark threading with the aid of the described method, and presents analytical and graphic methods permitting the selection of optimum electrode dimensions in correspondence with the required accuracy or the estimate of the accuracy of the surface obtained by the given thread and tool parameters. There are 15 figures and 8 references.

A. Kruglov

[Abstracter's note: Complete translation]

Card 2/2

CIA-RDP86-00513R000617310012-0" APPROVED FOR RELEASE: 09/19/2001

ACC NR. AP6026319 (A, N) SOURCE CODE: UR/0407/65/000/003/0027/0044

AUTHOR: Gularyan, K. K. (Moscow)

ORG: none

TITLE: Synthesizing automatic contour-tracking devices in electrospark machining

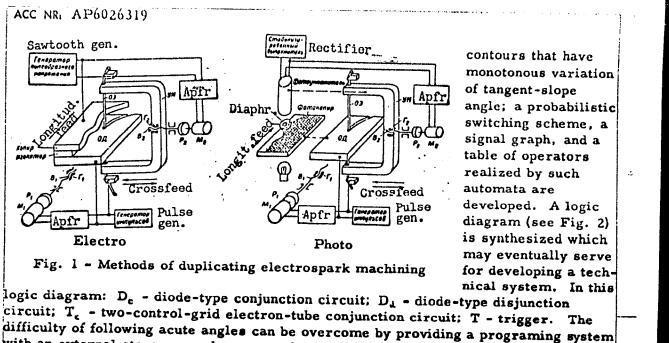
of metals

SOURCE: Elektronnaya obrabotka materialov, no. 3, 1965, 27-44

TOPIC TAGS: electrospark machining, automatic control, industrial automation

ABSTRACT: Formulas underlying the possible design of electrospark duplicators are discussed. Two methods of automatic duplication — electro and photo (see Fig. 1) — can be used. In the electroduplicating method, the wire electrode also serves as a feeler (or probe) that follows the required contour; the template is mounted on an insulator. In the photoduplicating method, the contour is followed by a photomultiplier-operating light beam. It is suggested that switching be made at points where the tangent-slope angle exceeds 45° and where the contour makes sharp turns. The method of digital automata is used in synthesizing a system for automatic tracking

Card 1/3

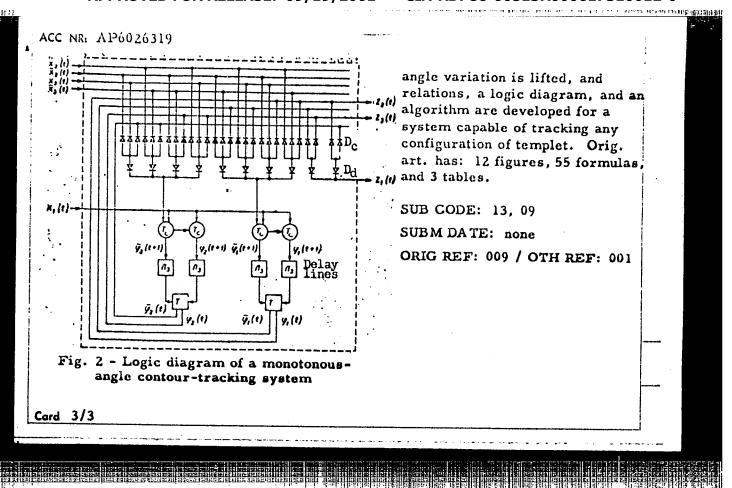


difficulty of following acute angles can be overcome by providing a programing system with an external storage, such as a punch tape. Further, the limitation of monotonous

Card 2/3

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32669

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S/196/61/000/012/027/029 E194/E155

AUTHORS:

Gularyan, K.K., and Kravchenko, V.L.

TITLE:

Making parts of complicated outline by electric-spark

machining with programme control

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.12, 1961, 41, abstract 12K 238. (Tr. Tsentr. n.-i. labor. elektr. obrabotki materialov. AN SSSR, no.2,

1960, 179-195)

The NII of the Goskomitet Soveta Ministrov po radioelektronike (State Committee of the Council of Ministers on Radioelectronics) has developed a method for electric-spark machining of parts of complicated outline in which the electrode consists of a thin wire 0.02-0.3 mm in diameter. Slots have been made of from 0.025 mm width and up to 70 mm deep and of lengths to suit the shape of the part. Consideration is given to the maintenance of accuracy and surface finish in equipment with programme control. The article gives a description, a schematic circuit diagram, block circuit diagram and external appearance of Card 1/2

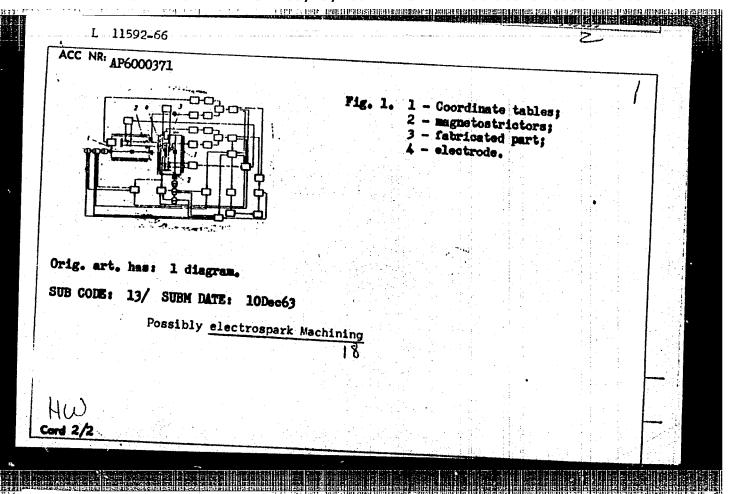
32669
Making parts of complicated outline... 5/196/61/000/012/027/029
E194/E155

equipment type **3Kyn**-2 (EKUP-2). Performance data are as follows; maximum power demand 0.4 kVA, smooth current control from 0 to 1 A. Capacitance switched in steps of 0.01 microfarads over the range 0.01 - 0.42 microfarads. The tool electrode is a wire of 0.02-0.1 mm diameter; the output is 2 + 10 mm³/min; the surface finish is standard grade 6 - grade 10; the maximum longitudinal travel is 50 mm; the maximum size of part machined is 150 x 50 x 50 mm; the volume of the container of working fluid 2 litres; the maximum weight of part machined 0.5 kg; and overall dimensions of the equipment 840 x 720 x 1100 mm. Information is also given about the use of special electrodes with slots in two mutually perpendicular directions for making precision all-metal grids of copper, nickel, vanadium, molybdenum and other metals with width of metal parts from 0.02 mm upwards.

[Abstractor's note: Complete translation.]

Card 2/2

11592-66 EWT(d)/EWT(m)/EWP(v)/EWP(t)/EWP(h)/EWP(b)/EWP(1)/EWA(h) ACC NR SOURCE CODE: UR/0286/65/000, AUTHOR: Gularyan, K. K. ORG: none TITIE: Electric arc apparatus with program med control. SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 84 Class 49, No. 176174 TOPIC TAGS: electroerosion machining, metal electroforming ABSTRACT: This Author Certificate presents an electric arc apparatus with programmed control for fabricating parts having straight outlines parallel to the coordinate axes, and using an unshaped electrode. The apparatus contains combined slave systems for moving two coordinate tables with magnetostrictors fastened to them. To compensate the dynamic errors of the control system and to increase the fabrication accuracy, the part is mounted on one of the magnetostrictors and the electrode is mounted on the other (see Fig. 1). Determination of the actual position of the electrode relative to the part along each coordinate is made by algebraic summation of the digital values of the positions of the coordinate table and the end of the magnetostrictor. To compensate the dynamic errors along the whole outline with small values of displacements of the magnetostrictors! ends and to shift them into the zero positions, slave systems are used to carry out the displacements of the coordinate tables by the magnitudes of the displacements of the ends of the magnetostrictors. UDC: 621.9.048.6.06-503.55



21833-66 EWP(k)/EWT(d)/EWT(m)/EWP(h)/ETC(m)-6/T/EWP(l)/EWP(v)/EWP(t) ACC NR. AP6004277 SOURCE CODE: UR/0407/65/000/002/0018/0028 AUTHOR: Gularyan, K. K. (Moscow); Gusev, Ye. V. (Moscow) 23 22 ORG: none B TITLE: Synthesizing a digital program control system for a precision electricspark-machining outfit SOURCE: Elektronnaya obrabotka materialov, no. 2, 1965, 18-28 TOPIC TAGS: spark machining, program control, digital control ABSTRACT: As the known systems of metal-working-machine program control are inapplicable to spark-machining outfits and as existing program controls for spark machining permit processing only a narrow class of work-pieces, a new system is suggested which permits spark-machining any shape composed from (under 1-mm) straight-line segments. A position-type feedback which uses recorded absolute values of coordinates is adopted in the new system. A punch tape is quickly (0.03-0.05 sec) fed by a step mechanism and remains at rest during the machining of one step; then it is fed again. Short-time short-circuits are eliminated by a 4-frame Card 1/2

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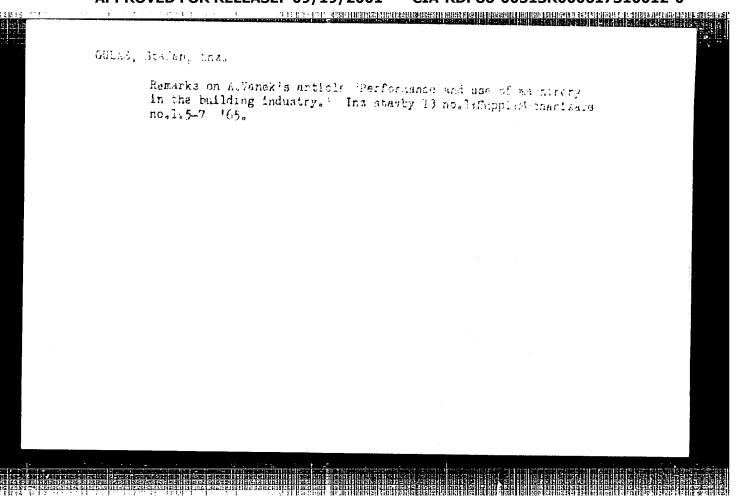
ACC NR: AP6004277

simultaneous reading of the punch tape: "deep" short-circuits are liquidated by retracting the punch tape. In synthesizing, the logical net is constructed by applying digital-automata techniques to a "black box" with a known input and output. The resulting digital program control permits machining the segmented outlines with an error of ±3 m and with a surface roughness of 0.8-0.4 m, and also permits producing any complex outline with an error of 10-20 m and a surface roughness of 5-10 m. Minimum electrode diameter, 5 m; spark-gap voltage, 5-10 v. Advantages claimed: minimum number of components, maximum reliability, no error accumulation. Disadvantages: complicated programing of some outlines. Orig. art. has: 5 figures, 18 formulas, and 2 tables.

SUB CODE: 09, 13 / SUBM DATE: none / ORIG REF: 008

Card 2/2 nat

L 13247-66 EWA(1)/T/EWA(b)-2 JK ACC NR AP6006042 SOURCE CODE: CZ/0053/65/014/004/0294/0294 AUTHOR: Gulda, O. ORG: Department of Pharmacology, LF, Brno (Farmakologicka katedra LF) TITLE: Mechanism of effect of staphylotoxin on isolated smooth muscle [This paper was presented during the Twelfth Pharamcologic Days, Smolenice, 29 Jan 65.] SOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 294 TOPIC TAGS: rat, experiment animal, myology, toxicology, bacteriology, calcium ABSTRACT: In vitro studies on rat uterus, coronaries of isolated rabbit heart all confirmed that in smooth muscle preparations also as previously shown in the author's thesis to occur in the striated muscle, the effect of staphylotoxin is very strictly correlated with the calcium ion concentration. [JPRS] SUB CODE: 06 / SUBM DATE: none / ORIG REF: 001 / OTH REF:



GULAS, Stefan, inz.

Simple and fast programming of the use of heavy building machines. Inz stavby 13 no.4 Suppl: Mechanizace no.4:53-55 '65.

1. Inzinierske stavitelstvo, Branch Management, Bratislava.

GUIATI, B.S.; SINGH, F.; PHEG, P.P.

Germination of the seeds of Rauwolfia serpentina Benth. Biul.
Glav. bot. sada no.56:36-38 '64. (MIRA 18:5)

1. Severnyy zonal'nyy tsentr TSentral'nogo indiyskogo instituta lekarstvennykh rasteniy, Khaldvani, Indiya.

GULAY, O.G. [Hulai, O.H.], inzh.-mekhanik

Restoring connecting rods by means of welding under flux. Mekh. sel. hesp. 9 no.9:12-13 S '58. (MIRA .11:10)

(Electric welding) (Agricultural machinery--Maintenance and repair)

GULAY, O.G. [Hulai, O.H.], nauchnyy sotrudnik; BUHENKO, I.D., nauchnyy sotrudnik.

Device for grinding valve seats. Mekh.sil'.hosp. 11 no.1:19-20 Ja '60. (MIRA 13:4)

1. Ukrainskaya akademiya sel'skokhosyaystvennykh nauk. (Grinding and polishing)

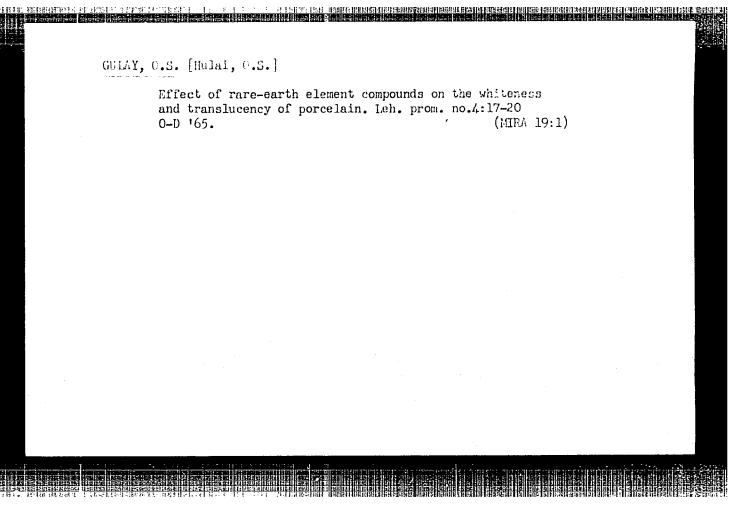
SIVCHIKOVA, M.G. [Syvchykova, M.H.], kand. tekhn. nauk; DAYN, F.L.;

GULAY, O.S. [Hulai, O.S.]

Improving the quality of maiolica goods. Leh. prom. no.1:21-22

Ja-Mr '65.

(MIRA 18:4)



SIVCHIKOVA, M.G. [Syvchykova, M.H.], kand. tekhn. nauk; DAYN, F.L.;

GULAY, O.S. [Hulai, O.S.]

Effect of the glaze coating on porcelain whiteness. Leh. prom.

no.4:22-27 O-D '65. (MIFA 19:1)

GULAYA, N. K.

GULAYA, N. K.: "Seasonal changes in the content and biological mass of microorganisms and the processes of the nitrogen cycle in fish ponds and rice paddies". Alma-Ata, 1955. Inst of Botany, Acad Sci Kasakh SSR. (Dissertations for the degree of Candidate of Biological Sciences.)

SO: Knishnaya Letopis' No. 50 10 December 1955. Mescow.

Microbiological characteristics of fish ponds and rice fields of the Alma-Atm fish farm. Trudy Inst.mikrobiol.i virus.AM Essakh.SSR (ALMA-ATA PROVINCE--PISH PONDS) (RICE) (FRESH-WATER BIOLOGY)

USSR/Microbiology - General Microbiology. Water and Air Microorganisms.

ररक राज्यक्रमण्ड वस्त्राधान्त्र प्रशासन्तर अन्य सामानानाः निस्तानम् । स्त्री सम्बद्धान् स्त्रीक्षः स्तिन्ति स्

Abs Jour

: Ref Zhur Biol., No 22, 1958, 99349

Author

Gulaya, N.K.

Inst

Institute of Microbiology and Virology.

Title

: Application of the Plate Overgrowth Method to the Study

of the Microflora of Ponds and Rice Paddies.

Orig Pub

: Tr. In-ta mikrobiol. i virusol. AN KazSSR, 1958, 2,

258-264

Abstract

: Microbiological investigations of ponds and rice paddies of the Alma-Ata Pond Fish Industry were carried out by the method of plate overgrowth. A survey of the slides demonstrated that the bacterial population of ponds is characterized by predominance of rod-shaped, non-sporogenous forms of bacteria. The qualitative composition

Card 1/2

- 47 -

APPRQYFD1£QR18£LEASE:1091/191/20011000 CIA+EPPR6790513R000617310012-0" Microorganisms.

: Ref Zhur Biol., No 22, 1958, 99349 Abs Jour

> of the microflora on the slides from superficial and bottom layers varied little. During the period of introduction of a green vegetable fertilizer an abundant development of most variegated groups of microorganisms was observed, but nonsporogenous bacilli predominated. The qualitative composition of the microflora of rice paddies

is distinguished by the poverty of forms.

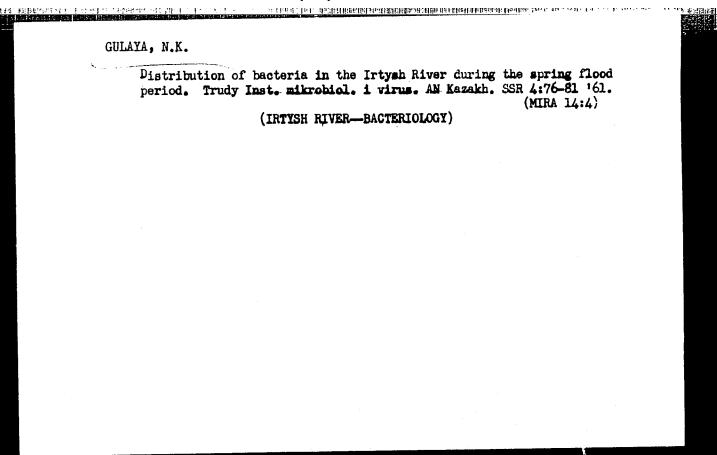
GULAYA, N.K.

Number and biological mass of bacteria of the Irtysh River in the region of the Bukhtarma Reservoir (before its filling). Trudy Inst. mikrobiol. i virus. AN Kazakh. SSR 4:65-75 '61.

(IRTYSH RIVER-BACTERIOLOGY)

(MIRA 14:4)

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Phospate-mobilizing bacteria of the Irtysh River. Trudy Inst.
mikrobiol. i virus. AN Kazakh. SSR 4:82-88 '61. (MIRA 14:4)

(IRTYSH RIVER-BACTERIA, PHOSPHORUS)

GULAYA, N.K.; KANATCHINOVA, M.K. Microflora and chemical composition of soils of the Ust!-Kamenogorsk Reservoir. Trudy Inst. mikrobiol. i virus. AN Kazakh. SSR 5:104-

114 '61.

(MIRA 15:4) (Ust'-Kamenogorsk Reservoir-Soil micro-organisms) (Soil chemistry)

GULAYA, N.M. [bula, N.M.]

Effect of dehydroascoroic acid on the activity of the pancreatic lipase in cat. Ukr. biokhim. zhur. 34 no.3:424-427 '62.

(MIRA 18:5)

1. Kafedra biokhimii Kiyevskogo meditsinskogo instituta.

GULAYA, N.M. [Hula, N.M.]

Effect of dehydroascorbic acid on the rate of aconitase reaction. Ukr. biokhim. zhur. 36 no.5:705-710 '64.

(MIRA 18:6)

1. Kafedra biokhimii Kiyevskogo meditsinskogo instituta.

GULAYEV, Ye. A., Cand Med Sci -- (diss) "Problem of iron metabolism in donors." Kuybyshev, 1960. 16 pp; (Kuybyshev Medical Inst, Hospital Therapeutic Clinic, Kuybyshev Oblast' Blood Transfusion Station); 270 copies; price not given; (KL, 22-60, 143)

<u>्राप्तः १८७ - विलेक्ति विश्वकाने राज्ये एक्सिक्षिकको इस्थि विक्रिक्षिकावित्रको जानिका विद्यानक विकास विकरण वि</u>

GULAYKIN, I. V. and YUDINTSEVA, E. V.

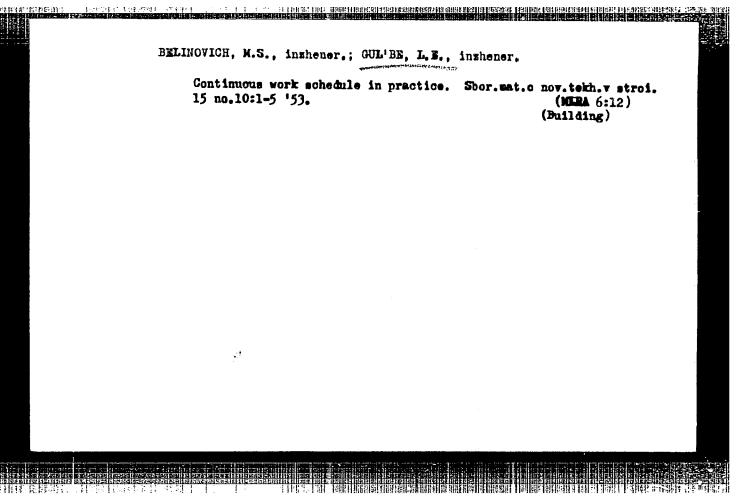
"Uptake of Strontium, Cesium and Some Other Fission Products by Plants and Their Accumulation in Crip Yield."

paper to be presented at the 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sept 58.

NUTSUBIDZE, N.N.; GULBANI, D.I.

Anthocyanins of grape leaves. Soob.AF Grus.SSR 23 no.6:671-676 D (59. (MRA 13:6)

1. Laboratoriya biokhimii Instituta botaniki AF GrusSSR, Tbilisi.
Predstavleno akademikom 8.V.Durmishidze.
(Anthocyanine) (Grapée)



م المطاولة المالية ال

AID P - 318

Subject

: USSR/Engineering

Card

: 1/1

Authors

: Gul'be, L. E. and Alekseyev, A. I., Engineers

Title

A simplified procedure for the automatic welding of pipes. (Practice of the Trust Uralstal'konstruktsiya)

Periodical

Sbor. mat. o nov. tekh. v stroi., 3, 10-13, 1954

Abstract

A special travelling platform has been designed with roller stands on which large diameter pipes (Ø 1.3 m - 1.9 m) can be placed and turned over for automatic welding. For this welding the universal welding tractor TS-17 was used. The construction of tractor TS-17 was designed by the Welding Institute of the Academy of Sciences, USSR, and the whole process of welding carried out by the Collective of Metallic Constructions of the Magnitogorsk Plant. 4 charts show the details of this

installation.

Institution:

None

Submitted

No date

AID P - 514

Subject : USSR/Engineering

Pub. 93 - 1/12 Card 1/1

322 78 ... I. A. 4.

語諸國法監任

: Gul'be, L. E., Eng. Author

: Results of the construction of residential houses in Title

Izmaylovo by the continuous mass production speed method

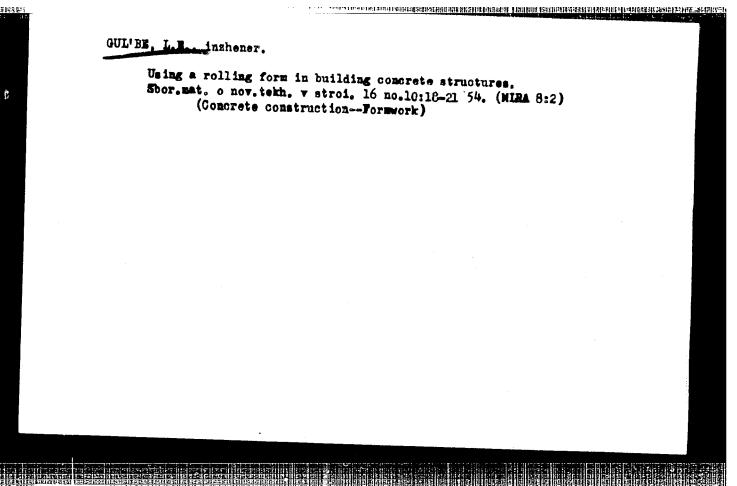
Periodical: Sbor. mat. o nov. tekh. v stroi., 6, 1-3, 1954

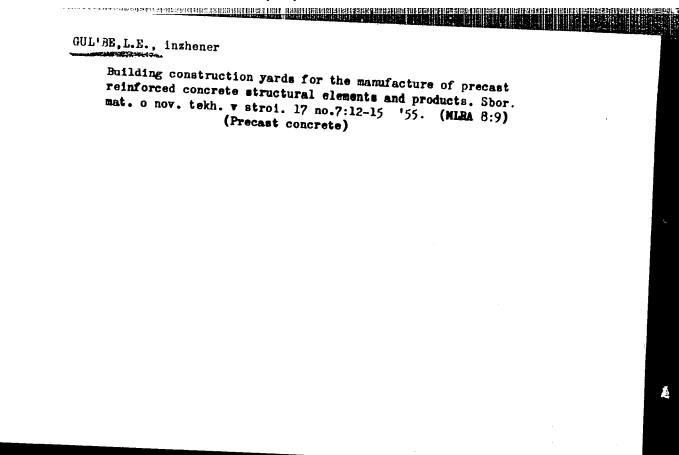
Abstract

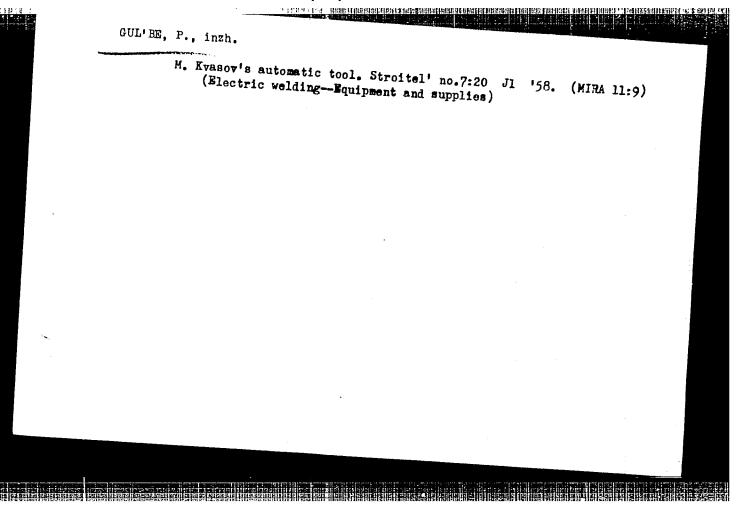
: This is a short report on the construction of eight 5-story apartment houses built by Building Administration #181 of Trust #28 of the Ministry of Construction in 1953.

Institution: None

Submitted : No date







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BOLGAR, Erssebet, dr.,; GULBERT, Anna, dr.,; TOROK, Hedvig, dr.,; CSORAI,
           Gabriella, dr.
           Pathology of penicillin lesions. Borgyogy. vener. ssemle 9 no.5:183-190
           1. Istvan-korhaz borosztalya koslemenye. (Foorvos: Rajka Odon dr.)
                (ALLERGY
                   to penicillin)
                (PENICILLIE, injurious effects.
                   allergy)
```

GULBERT, Anna, dr.; POKA, Kalman, dr.

Atypical case of neglected melanoblastoma. Borgyogy.vener. szemle 36 no.1:31-32 Ja 60.

1. Orszagos Onkologiai Inteset (Igazgato: Dr. Vikol Janos; tudomanyos igazgato: Dr. Wald Bela, az orvostudomanyok kandidatusa) dernatologiai osstalyanak (Foorvos: Dr. Venkei Tibor: es a rackevei jaras Bor-nemibeleggondozo Intesetenek (Veseto orvos: Dr. Poka Kalman) kozlemenye.

(MEIANOMA case reports)

BIHARI, Odon, dr.; GULBERT, Anna, dr.; FENYES, Gyorgyne, dr.; SUGAR, Janos, dr.; VENKEI, Tibor, dr.

Role of the P32 concentration test in early diagnosis of malignant tumors of the skin. Magy. radiol. 14 no.4:227-228 Jl 162.

1. Orszagos Onkologia Intezet kozlemenye (Igazgato: Vikol Janos dr.). (PHOSPHORUS radioactive) (SKIN NEOPLASMS diag)

EINARI, Odon, dr.; GULBERT, Anna, dr.; FENYES, Gyorgyne, dr.; SUGAR, Janos, dr.; VENKEI, Tibor, dr.

Role of the P32 concentration test in early diagnosis of malignant tumors of the skin. Magy. radiol. 14 no.4:227-228 Jl '62.

1. Orszagos Onkologia Intezet kozlemenye (Igazgato: Vikol Janos dr.). (PHOSPHORUS radioactive) (SKIN NEOPLASMS diag)

GUL'BIN, V.; POPOV, V.

Fighting for high productivity. Avt.dor. 28 no.8:4-5
Ag '65.

(MIRA 18:11)

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617310012-0 THE TAX OF THE REPORT THE PROPERTY OF THE PROP

GARLES A. P.

Sco/Cet his

USSI/Medicine - Skin, Tuberculosis and Tuberculids

Medicine - Tuberculosis, Therapy

"The Treatment of Cutis Tuberculosis With 'Neobenzinol,' a Preparation for Stimulation Therapy," I. Kayryukshtis, A. Gul'binas, Clinic of Faculty Therapy and Dermantovenereol Clinic, Vil'nyus State U, 2 pp

"Problemy Tuberkuleza" No 5

Prof. I. Kayryukshtis prepared "Neobenzinel," new preparation for atimulation therapy containing liquid hydrocarbons of the aliphatic series. It is produced by the "Canitas" Chemicophar Factory in Kanunas, Lithuanian SSR. Presents data on results of its use. Concludes it is effective and safe remedy for cutis tuberculosis. Treatment is simple and can be administered to embulatory and bedridden cases.

PA 21/L9T78

GUL'BINAS, A.A.

KAIRIUKSHTIS I., GUL'BINAS A.,

Lechenie neobensinolom skrafuloderny in tuberkulesnogo limfadenita.
/Neobensinol treatment of scrofuloderna and tuberculous lymphadenitis/ Prob. tuberk., Moskva No. 2 Mar Apr 51 p. 43-7.

1. Of the Climic of Faculty Therapy (Head-Honored Worker in Science Lithuanian SSR Prof. I. Kayryukshtis) and of the Skin-Venereological Climic (Head-Docent A. Gul'binas),

CLML Vol 20, No. 10 October 1951

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617310012-0"

GUL'BINAS, A.A., kand. med. nauk; AMITINA, E.B.

Dissecting aneurysm of the aorta in tabes dorsalia. Vest. derm. i ven.

33 no.2:78-79 Mr-Ap '59 (MIRA 12:7)

1. Iz kozno-venerologicheskogo dispansera (glavnyy vrach - kandidat med. nauk A.A. Gul'binas), g.Shaulyay Litovskoy SSR.

(TARES DORNALIS, compl.

dissecting acrtic aneurysm (Rus))

(AORTIC ANEURISM; compl;

dissecting aneurysm with tabes dorsalis (Rus))

GUL'BINAS, A.A., kand.med.nauk

Case of allergy in angiotrophin thereon

Case of allergy in angiotrophin therapy. Klin.med. 39 no.1: 138-139 Ja 161. (MIRA 14:1)

1. Iz Shyaulyayskogo kozhno-venerologicheskogo dispansera, Litovskaya SSR (glavnyy vrach - kand.med.nauk A.A. Gul'binas). (ANGIOTROPHIN) (ALLERGY)

GUL'BINAS, A.A., kand.med.nauk

Treatment of deep trichophytosis with neobenzinol in combination with local therapeutic agents. Vest.derm.i ven. no.9:88-90 '61.

क्षात्रकार प्रकार प्रवास प्रतासकार प्रकार कालावास प्रवास का कार्य का कार्य का विकास का विकास का कार्य का का का विकास का कार्य का का

1. Iz Shyaulyayskogo gorodskogo kozhno-venerologicheskogo dispansera Litovskoy SSR (glavnyy vrach - kand.med.nauk A.A. Gul'binas). (RINGWORM) (HYDROCARBONS-THERAPEUTIC USE)

GULBINAS, A., med. m. kand.; AMITINA, E.

開達開發時

On the problem of panniculitis. Sveik. apsaug. 8 no.1:38-39 Ja'63.

1. Siailiu m. Odos ir veneros ligu dispanseris.

GUL'BINAS, A.S. [Gulbinas, A.]

Angular velocity and angular acceleration of the follower roller of a flat cam gear. Trudy AN Lit. SSR. Ser.B no.1:185-192 '65. (MIRA 18:7)

1. Institut energetiki i elektrotekhniki AN Litovskoy SSR.

QUL'BLOVICE. Mikhail Ivanovich, prepodavatel'; MASE HEKIY, lev Osipovich, kandidat blologicheskikh neuk; SUDACHKOV, Ye,Ya., redaktor; AIRUP'YEVA, A.K., redaktor izdatel'stve; KOMYASHIMA, A.D., tekhnicheskiy redaktor

[Economics, organization, and planning of municipal landscaping]

Ekonomics, organizatelia i planirovanie gorodskogo zelenogo stroitel'stve. Mokava, Isd-vo M-va kommun.khos. RSFSR, 1957. 263 p.

(Mikh 10:10)

1. Kafedra ekonomiki i organizateli proizvodstva Moskovskogo lesotekh.icheskogo instituta (for Gul'binovich)

(Iandscape gardening)

FAYNBERG, A.I., kand.ekon.nauk; DOMBROVSKIY, A.A., kand.ekon.nauk;
POPOV, N.S., kand.ekon.nauk; SKVORTSOVA, N.T., kand.ekon.nauk;
STROGANOVA, T.A., kand.ekon.nauk. Prinimali uchastiye: BOLOTINA,
O.A., kand.ekon.nauk; GUL'BINOVICH, M.I., PROTSENKO, D.I., red.;

SALAZKOV, N.P., tekhn.red.

[Economics, organization, and planning of municipal services]
Ekonomika, organizatsiia i planirovanie gorodskogo khoziaistva.
Pod obshchei red. A.I.Fainberga. Moskva, Izd-vo M-va kommun.
khoz.RSFSR, 1959. 451 p. (MIRA 13:2)
(Municipal services)

(MIRA 13:9)

GUL'BINOVICH, Mikhail Ivanovich; BUKIN, F.T., red.; BAKHTIYAROVA, R.Kh., red.izd-va; LKLYUKHIN, A.A., tekhn.red. [Analyzing the economic and financial activity of landscape gardening enterprises of cities] Analis khosiaistvenno-finansovoi deiatel'nosti predpriiatii gorodskogo selenogo stroitel'stva. Moskva, Isd-vo M-va kommun, khoz. RSFSR, 1960. 142 p.

(Landscape gardening -- Economic aspects)

CIA-RDP86-00513R000617310012-0" APPROVED FOR RELEASE: 09/19/2001

GUL'BINOVICH, Mikhail Iwanovich. Prinimal uchastiye MASHINSKIY, L.O., kand. biolog. mauk; BUKIN, F.T., red.; BAKHTIYAROVA, R.Kh., red.izd-va; KHENOKH, F.M., tekhn. red.

[Economics, organisation and planning of municipal park and horticultural services] Ekonomika, organizatsiia i planirovanie gorodskogo zelenogo khoziaistva i stroitel'stva. Moskva, Izd-vo M-va kommun.khoz. RSFSR, 1962. 275 p. (MIRA 16:5) (Landscape gardening) (Horticulture)

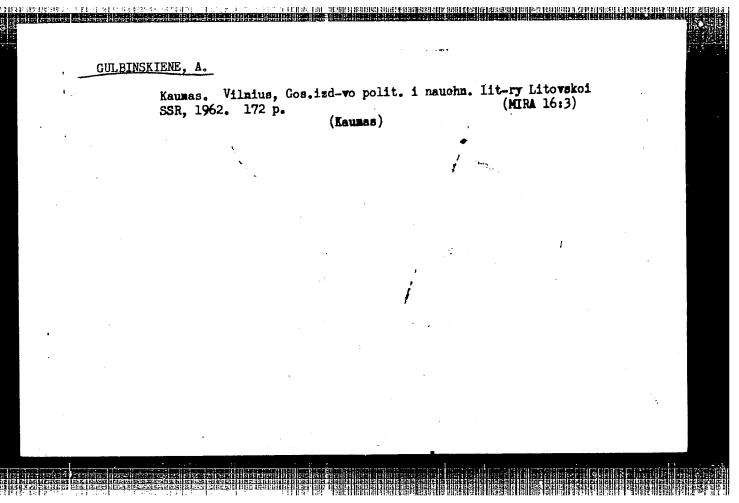
GULBINSKIENE, A.; CERNECKIS, V.; KEZINAITIS, P.; MEDONIS, A., red.;

VYSON-HNSKIS, C., tekhn. red.

[Kaunas, its past, present and future] Kaunas, jo praetis,
dabartis ir ateitis. Kaune, Valstybine politimes ir mokslines
literaturos leidykla, 1960. 143 p.

(Kaunas—Description)

(Kaunas—Description)



GULBIS, M.G.; LATKOVSKA, S.A.

Xeroderma pigmentosum. Pediatriia 42 no.1:76-78 Ja 63. (MIRA 16:10)

1. Iz kafedry detskikh bolezney (zav. M.D.Kurbatova) Rizhskogo meditsinskogo instituta i Rizhskoy detskoy klinicheskoy bol'nitsy (glavnyy vrach T.R.Chems) (SKIN-DISEASES) (CHILDREN-DISEASES)

DRIZINA, Tatjana; GULBIS, V., red.; BLAUA, V., tekhn. red.

[Wages for motor vehicle drivers in agriculture] Par soferu darba samaksu lauksaimnieciba. Riga, Latvijas Valsts izdevnieciba, 1963. 164 p. (MIRA 16:4) (Latvia--Wages--Transportation, Automotive) (Latvia--Agriculture)

BLIVIS, J., inzh.- mekhanik; GULBIS, V., inzh.-mekhanik; JULA, E., red.; FREIMANIS, V., tekhin. red.

[Tractors and motor vehicles] Traktori un automobili.
Riga, Latvijas Valsts izdevnieciba, 1963. 540 p.

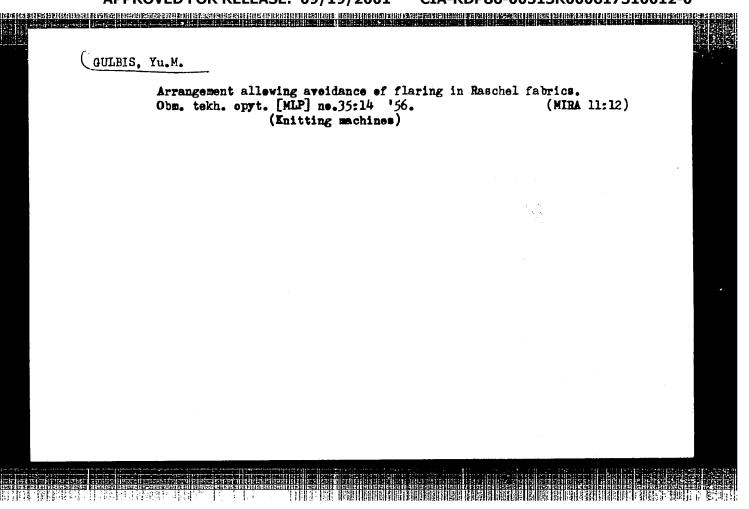
(MIRA 16:4)

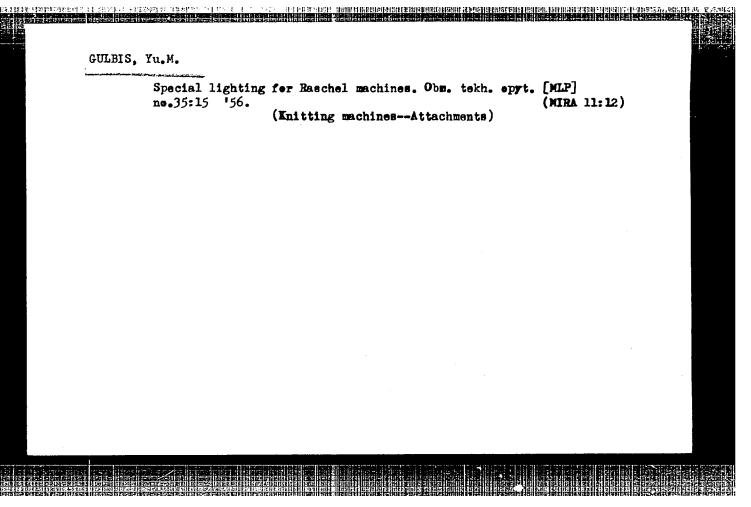
(Tractors) (Motor vehicles)

UISKA, J.; GULBIS, V., red.

[Optimum depth and spacing of drains] Optimalais dramu dzilums and atstatums. Riga, tatvijas valsts isdevniecība, 1965. 48 p. [In Latvian]

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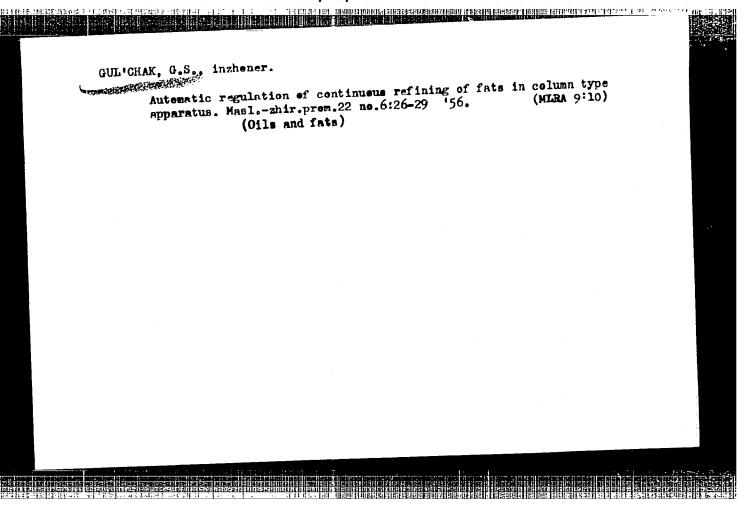
GUL'CHAK, F. YA.

Reindeer

Problems concerning technical installations for reindeer farms in the fifth five-year plan, Sov.zootekh, 8, no. 2, 1953.

Monthly list of Russian Accessions, Library of Congress, June 1953. Unclassified.

Severnoye olenewodstwo (Raising reindeer in the North) Moskva, Sel'khozgiz, 1954. 215 p. tables. "Isopl'zovannaya Literatura": p. 207-(214)		ин веринизания вохівн k , F. Ya.	<u>द्धार्था समस्त्रहासम्मानामास्त्र्यामार</u>	相似[36] [3] [6] [4] [5] [5] [5] [5] [5] [5] [5] [5] [5] [5	N/5 727.11 •09		
	Se 23 #3	evernoye olenevodstvo 15 p. tables. Isopl ¹ zovannaya Liter	(Raising reindeer in aturan: p. 207-(214)	the North) Moskva	Sel'khozgiz,	1564•	
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GUL!CHAK. G.S.; VERNER, E.O.; SYRKIN, G.Ye.; BUKHARIN, V.V., spetsred.;
MURASHEVA, O.I., red.; KISINA, Ye.I., tekhn.red.

[Automatic control devices in the oils and fats industry] Avtomaticheskie reguliruiushchie pribory v maslozhirovoi promyshlennosti. Moskva, Pishchepromizdat. Pt.2. 1957. 31 p. (MIRA 12:1)

(Automatic control) (Oil industries--Equipment and supplies)

CIA-RDP86-00513R000617310012-0 "APPROVED FOR RELEASE: 09/19/2001

I-4 POLAND/Radio Physics - Radiation of Radio Waves. Transmission

Lines and Antennae

Abs Jour : Ref Zhur - Fizika, No 1, 1959, No 1562

: Gulcz Grzegorz Author Inst

Title : Spiral Antonnas

Orig Pub : Rozpr. elektrotechn., 1958, 4, No 1, 103-166

Abstract: Survey article. Data are presented on the modes of the axial

and normal (relative to the axis) radiation of cylindrical sprial antennas. Equations are given for the directivity

patterns of both types of radiations.

Supply circuits for the individual spirals and systems of sprials radiating in the axial direction are considered, along with the influence of the earth on the shape of the directivity patterns of spirals for both types of radiation.

Bibliography, 26 titles.

I.F. Dobrevol'skiy

Card : 1/1

CIA-RDP86-00513R000617310012-0" APPROVED FOR RELEASE: 09/19/2001

POLAND/Chemical Technology. Chemical Products and Their Application. Part 3. - Drugs. Vitamins. Antibiotics.

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 71743.

Author : Jadwiga Gulczynska, Zdzisłąw Pazola, Władislaw

Prominski, Antoni Swierczyński

: Research Institute and Laboratory of Industry, Inst

Agriculture and Their Products.

: Preparation of Vitamin C Concentrate of "Oblepikha" Fruit.

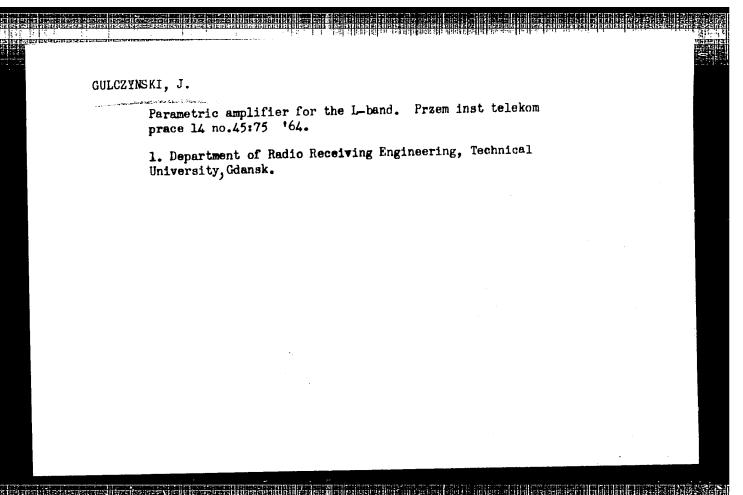
Orig Pub: Prace inst. i lab. bedawcz przem. roln. i spozywcz.,

1956, 6, No 3, 40-54.

Abstract: Vitamin C concentrates in the shape of a thick must containing 1820 mg % (sic!) of ascorbic acid (I) and of a concentrate with sugar containing 289.9 mg % (sic!) of I were obtained in the laboratory. The

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Title



GULDA, O.

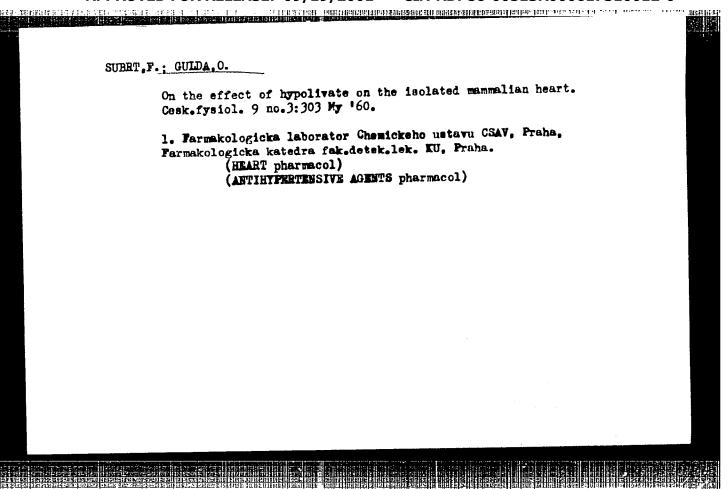
Effect of laparotomy on the activity of certain ganglioplegic drugs.

Gesk. fysiol. 9 no.1:79 Ja 60.

1. Farmakologicky ustav fak. datsk. lek. KU, Praha.

(AUTONOMIC DRUGS, pharmacol.)

(ABDOME, surg.)



GULDA, O.

CSSR

no academic degree indicated

Dept. of pharmacology and experimental pathology of the Faculty of Pediatrics at Charles University (katedra farmakologie a pokusne patologie fak. detskeho lekarstvi Karlovy University), Prague; director: Prof. H. RASKOVA, MD, ScD

Bratislava, Bratislavske Lekarske Lists, No 1, 1963, pp 34-39

"The Influence of Staphylococcus Toxin on the Effect of Convulsants and Thiopenthal"

GULDA, 0.

Effect of staphylocogcal toxins on the effect of convulsants and thiopental.
Bratisl. lek. listy \(\text{g} \) no.1:34-40 '63.

1. Z katedry farmakologie a pokusne patologie fak. detskeho lek. KU
v Praze, vedouci prof. MUDr. H. Raskova, Dr. Sc.
(TOXINS AND ANTITOXINS) (STAPHYLOCOCCUS) (THIOPENTAL)
(ANALEPTICS) (STRYCHININE) (PENTYLENETETRAZOLE)

CARREST COVERS

O. CULDA, Department of Phenuscology and Experimental Pathology of the Pediatric Paculty of Charles University (Useau formabologie a pokusne pathologie fakulty detokeho lekales of EU [Karlove University] Head (producte) Prof Dr H. RASKOVA, DeSc: Trague. Present affiliation of author: Department of Phermacology, Medical Paculty J.E. Purkyne University (Katedra farmakologie lekarake fakulty Udive [University J. Ev. Lurkyne], brno.

"Effect of E secretic and Repassed Administration of Phanel on wether Dase of Starhylococcal (Mood 48) Toxin."

trague, Casopis Lekaru Caskych, Vol 102, No 7, 15 Feb 63; pp 176-179.

Abstract [English summary modified]: Neither 2 mg./Kg. reserving i.v.

I hour before, nor "catecholomine-depleting dose" of 5 mg/Kg. s.c. 36
hours before the toxin affected dignificantly the response to the
latter, but 0.01% solution of phenol, 0.05 cc. s.c. for 12 days, then
3 days pause, then toxin, did decrease toxic effect. Speculation about
mode of action: via histomine, or tissue enzyme sensitivity. Two
graphs; 31 Western and 5 Grech references.

GULDA, O.

医医 121 1

Effect of staphylococcal toxin (Wood 46) on motor nerves and on transmission of excitation from nerve to muscle. J. hyg. epidem., Praha 8 no.1:120-126 *64.

Effect of staphylococcal toxin (Wood 46) on excitability and transmission in the sympathetic ganglion. Ibid. :127-131

1. Department of Pharmacology and Experimental Pathology, Faculty of Pediatrics, Prague.

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CZECHOSLOVAKIA

GULDA, O.; HADASOVA, E.; Chair of Pharmacology, Medical Faculty (Farmakologicka Katedra Lek. Fak.), Brno.

"Pharmacodynamics of the Staphylococcic Toxin."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 5, Sep 66, p 402

Abstract: The spastic effect of the staphylotoxin can be suppressed by some materials that have no spasmolytic properties; this spasm-suppressing effect is inhibited by calcium. Chloropromazine and LSD relax the spasm caused by staphylotoxin, and their effect is inhibited by Ca. The drug Syntofyl has an inhibitive and relaxing effect on the spasm. The inhibitive effect is removed by Ca, but the relaxing effect persists. Ba and Sr have an effect similar to that of Ca; Mg does not act in the same way. On the contrary it inhibits the spasm in normal de Jalon's solution. Its inhibitive effect is removed by the presence of Ca. 2 Western, 1 Czech reference. Submitted at 14 Days of Pharmacology at Smolenice, 16 Feb 66.

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SOURCE CODE: CZ/0053/66/015/005/0402/0402

AUTHOR: Gulda, O.; Hadanova, E.

AP6633377

21/

ORG: Chair of Pharmacology, Faculty of Medicine, Brno (Farmakologicka katedra lek. fak.)

TITLE: Pharmacological dynamics of staphylococcus toxin Part I [Presented at the 14th Pharmacological Meeting in Smolenice 16 Feb. 1966]

SOURCE: Ceskoslovenska fysiologie, v. 15, no. 5, 1966, 402

TOPIC TAGS: toxicology, pharmacology, physiology, biochemistry, staphylococcus toxin

ABSTRACT: Previous investigations have confirmed the ability of certain compounds to counteract the spasmodic effect of staphylococcus toxin. The antispasmodic and relaxant properties of such compounds may be inhibited by calcium. Recently these antispasmodic properties and the effect of calcium upon them were studied in chlorpromazine, <u>ISD</u> synthetic phylline, magnesium, nitrogen, NaCN, and DNP. The inhibiting and relaxant effects of chlorpromazine and LSD were suppressed by an increase of calcium in the nutrient solution. The inhibiting effect of synthetic phylline could be controlled both with calcium and with washing; how-

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replaced with barium and s the staphylococcus toxin wa conditions of anoxia and me suppressed the onset of spa	ge its relaxant effect. In these trontium, but not with magness observed in isolated smooth tabolic inhibition. It was shown; after flushing out NaCN op after flushing out DNP. [W	sium. Spastic reaction to nuterine muscle under own that NaCN and DNP, the spasms developed.
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AUTHOR: Gulda, O.; Hadasova, E.

ORG: Chair of Pharmacology, Faculty of Medicine, Brno (Farmakologicka katedra lek. fak.)

TITLE: Pharmacological dynamics of staphylococcus toxin Part I [Presented at the 14th Pharmacological Meeting in Smolenice 16 Feb. 1966]

SOURCE: Ceskoslovenska fysiologie, v. 15, no. 5, 1966, 402

TOPIC TAGS: toxicology, pharmacology, physiology, biochemistry, staphylococcus toxin

ABSTRACT: Previous investigations have confirmed the ability of certain compounds to counteract the spasmodic effect of staphylococcus toxin. The antispasmodic and relaxant properties of such compounds may be inhibited by calcium. Recently these antispasmodic properties and the effect of calcium upon them were studied in chlorpromazine, LSD, synthetic phylline, magnesium, nitrogen, NaCN, and DNP. The inhibiting and relaxant effects of chlorpromazine and LSD were suppressed by an increase of calcium in the nutrient solution. The inhibiting effect

CZECHOSLOVAKIA

CZ/0053/66/015/005/0403/0403

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AUTHOR: Hadasova, E.; Gulda, O.

ORG: Chair of Pharmacology, Faculty of Medicine, Brno (Farmakologicka katedra lek. fak.)

TITLE: Pharmacological dynamics of staphylococcus toxin. Part II [Presented at the 14th Pharmacological Meeting in Smolenice 16 Feb. 1966]

SOURCE: Ceskoslovenska fysiologie, v. 15, no. 5, 1966, 403

TOPIC TAGS: toxicology, pharmacology, physiology, biochemistry

ABSTRACT: Dolsin, synthetic phylline, and hydrocortisone, administered before staphylococcus toxin, suppressed typical toxin spasms in tests with a rabbit's aorta. However, magnesium, heparine, phlegomasin, and LSD had no effect on the onset of spasms. The histamine-liberating effect of staphylotoxin was tested as well. In a test tissue where calcium had been removed with EDTA, the toxin released statistically significant, lower amounts of histamine when tested in calcium-free solution. When a calcium solution was used, markedly higher 1/2

रां एउट दिए। वस्ता सामानिकी राज्यानी एक इसके अमिताली अस्ती मानिक स्थान के मानिक स्थान कर । वस दिल दिल उस

21(8) Culdenashvili, A. I., Dmitriyev, P. P. SOV/89-5-6-18/25 Krasnov, N. N., Mishin, V. Ya., AUTHORS: Khaprov, Ye. N. The Production of the Isotope ${\tt As}^{74}$ by Means of a Cyclotron (Polucheniye izotopa ${\tt As}^{74}$ na tsiklotrone) TITLE: Atomnaya energiya, 1958, Vol 5, Nr 6, pp 660 - 661 (USSR) PERIODICAL: As 14 was obtained by the irradiation of metallic germanium ABSTRACT: with the external 10,8 MeV deuteron beam of the cyclotron The characteristic feature of the target was the fact that the cooling water immediately reached the inner surface of the irradiated germanium plate. The germanium plate was cast in a vacuum and was then ground to the dimensions 170.40.4 mm. The deuteron beam (60-70 MA) is limited by a shutter so that only a surface of 150.25 mm² of the germanium was irradiated. The water consumption was 5 1/m. Chemical separation was carried out as follows: After the irradiated sample had been boiled twice (for 15 to 20 minutes)

in aqua regis, about 97-98 % of the activity had dissolved.

Card 1/3

The Production of the Isotope As^{74} by Means of a Cyclotron

S07/89-5-6-18/25

The solution was steamed-in and extracted with 11 n HCl (method according to reference 6). The arsenic carrier used weighed 50 Mg. Concentration of the arsenic isotope was carried out by the Marsh method (arsenic hydride). The two preparations, which were enclosed in an ampoule of 0,6 cm³, had an initial activity of 60 mC. The As 74 activity was measured by comparison with a ${\rm Co}^{60}$ source by means of the micro-roentgenometer of the type "Kaktus" 30 days after irradiation. The total yield obtained by the formation of As74 was: 25 AC/AA.ht 15 %. The half time was: T1/2= 18,4±0,4 d. Professor B. S. Dzhelepov, I. P. Selinov, and Ye. Ye. Baroni interested themselves in this work. M. Z. Maksimov calculated the yield curve. Yu. A. Bliodze and I. I. Zhivotovskiy assisted in carrying out experiments. There are 2 figures and 10 references, 3 of which are Soviet.

Card 2/3

The Production of the Isotope As⁷⁴ by Means of SOV/89-5-6-18/25

SUBMITTED: September 13, 1958

Card 3/3

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AUTHORS:

Chkuaseli, D. V., Nikoleyshvili, U. D., Guldamashvili, A. I.

TITLE:

Resonance Charge Exchange of Positive Ions of the Alkali

Metals

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 8, pp. 970-974

TEXT: For measuring the cross sections of resonance charge exchange in singly ionized alkali metal ions the authors developed a method which differs from those employed earlier (Refs. 3,4,5). The difference consists in using the molecular beam of the substance concerned as target instead of the collision chamber with the gas investigated. This method allowed sufficiently exact absolute measurements. The experimental arrangement and the experiments are described. They were made in a small electromagnetic separator (Ref. 6). The cross sections of resonance charge exchange of positive singly ionized ions of K⁺. Cs⁺ and Rb⁺ were measured. Fig. 1 schematically shows the chamber of the arrangement with

Card 1/3

Resonance Charge Exchange of Positive Ions of the Alkali Metals

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र है । ते विकास स्थापन के प्रतिकृतिक के अपने के प्रतिकृतिक के अपने के प्रतिकृतिक के अपने के अपने के अपने के अपने इसके के प्रतिकृतिक के अपने के

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the ion source and the receiving measuring device, Fig. 2 shows the double beam source of molecules with the monitor. For determining the dimensions of the receiving measurement device the traces of the trajectories of the following beams were recorded: the molecular, the ion beam, and the beam of the charge exchanging fast atoms (in the case of resonance charge exchange of magnesium) (Fig. 4). Fig. 4 shows that the dispersion of the charged and charge exchanging fast atoms is completely sufficient in the detection range (60 mm) to capture them separately. Hence, the method employed here allows a determination of the charge exchange by recording the fast neutral atoms and also by the potential method. In the present paper the measurement was made according to the potential method (Refs. 2,3,4,5). The experiments showed that the formation of slow ions and electrons in the interaction of fast singly ionized ions with gas atoms is mainly due to ionization and charge exchange processes. Fig. 6 shows the measurement results for cesium, rubidium, and potassium in the energy range of the primary ions from 5 to 30 kev. The same Fig. also shows the theoretical curves obtained from calculations made by O. B. Firsov, whereas the curves obtained from the

Card 2/3

Resonance Charge Exchange of Positive Ions of the Alkali Metals

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formula by Yu. N. Demkov are not given. Fig. 6 shows that the cross section of resonance charge exchange monotonically decreases with increasing primary ion velocity. The cross section is also reduced in the transition to atoms with a higher ionization potential. The experimental data of the cross sections of resonance charge exchange are on the average by 1,5 times higher than the theoretical values. There are 6 figures and 8 references: 6 Soviet and 2 British.

Card 3/3

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26.2340 AUTHORS:

Chkuaseli, D. V., Nikoleyshvili, U. D., Guldamashvili,

TITLE:

Resonance Charge Exchange of Positive Potassium Ions

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 7,

pp. 817 - 823

TEXT: The authors measured the resonance charge exchange cross section of K⁺ ions on potassium atoms in the energy range of from 5 to 30 kev with an arrangement already described in Ref.7. Similar measurements were carried out by R. M. Kushnir, Yu. F. Bydin, and A. M. Bukhteyev (Refs. 5,6) at energies of < 2 kev. The method employed differs from the usual one based on the use of a gas target; instead of the latter, an atom beam with controlled intensity was used. The sources that supplied the atom- and ion beam respectively, were constructed for the purpose (Fig. 2 - ion source, Fig. 5 - atom source) and arranged in a device shown in Fig.1 in such a manner that the two beams intersected; the ion beam is semicircularly deflected in the device. Fig. 7 shows a photograph of the beam trajectory together with the atom beam source; the beam of the Card 1/2

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Resonance Charge Exchange of Positive Potassium Ions

S/057/60/030/007/018/018/XX B006/B064

recharged fast atoms which through the intersection point of the two beams goes tangentially to the ion beam, is clearly visible. Fig. 6 shows the dependence of the intensity of the main atom beam on the monitor current, Fig.9 the dependence of the measured charge exchange cross section on the velocity of the primary ions. Measurement was made by the so-called potential method (Refs. 10-12), the results being accurate to within $\pm 15\%$. Fig. 9 shows besides the experimental results also the o(v) curves, calculated by a formula of O. B. Firsov (Ref.3) and Yu. N. Demkov (Ref.4). The theoretical curves lie somewhat lower and are less inclined; in all cases, however, the cross section o decreases with rising ion velocity v; in general, the experimental values are 1.5 times higher than the theoretical ones. In conclusion, the authors thank P. M. Morozov, Doctor of Physical and Mathematical Sciences for his interest in the work. A. L. Sokolova and N. G. Tskiriy for carrying out the chemical analyses. There are 9 figures and 15 references: 10 Soviet, 2 German, 1 British, and 2 US.

SUBMITTED:

January 5, 1960

Card 2/2

CHKUASELI, D.V.; GULDAMASHVILI, A.I.; NIKOLEYSHVILI, U.D.

Charge exchange between atoms and ions of alkaline and alkaline earth elements. Izv. AN SSSR. Ser. fiz. 27 no.8:999-1004 Ag '63. (MIRA 16:10)

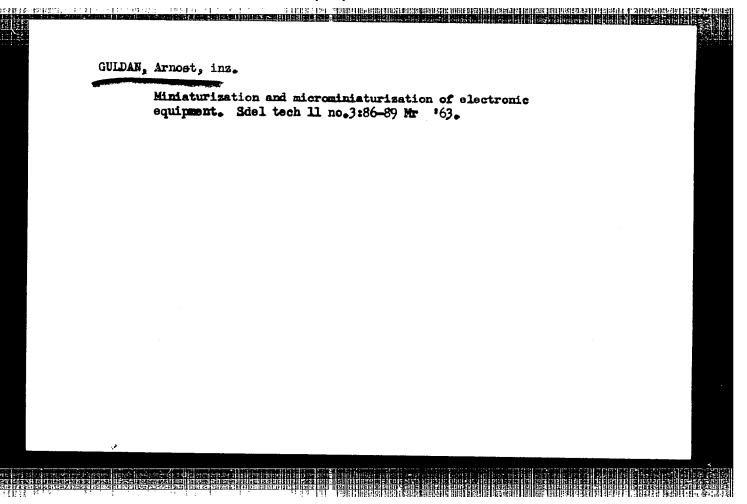
1. Fiziko-tekhnicheskiy institut AN GruzSSR.

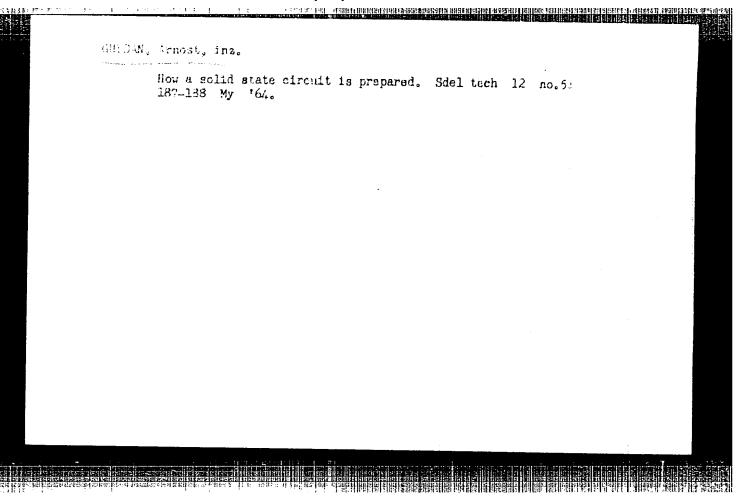
一一一大工作工工。中国的时间即将国家国际任务和国际编辑的对象。如果实验的国家的公司,但是这个人的国家的国家的国家的国家的国家。在1915年的国家的国家的国家的国

GULDAMASHVILI, A. I., NIKOLEYSHVILI, U. D., CHKUASELI, D. V.,

"Charge-exchange of Atoms and Ions of Alkaline and Alkali-Earth Elements,"

report presented at the 6th Intl. Conf. on Ionization Phenomena in Gases, Paris, France, 8-13 Jul 63





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SZUCS, Miklos, dr., a kemiai tudomanyok kandidatusa; SZASZ Frigyes;

BUNYITAI, Janos, dr.; BANAS Jozsef; 7ACHEMSZKY, Ferenc;

GULDEN, Otto; TERNYAK, Beno; HENKOVI, Jozsef; DIOSZEGHY,

Daniel, prof., dr.; TOTH, Istvan.

Questions of vocational education pertaining to the gas industry. Energia es atom 17 no.1:7-11 Ja'64.

1. Fovarosi Gazmuvek (for Szucs); 2. Orszagos Koolaj- es Gazipari Troszt (for Szasz and Bunyitai). 3. Miskolci Nehezipari Muszaki Egyetem (for Dioszeghy). 4. Veszpremi Vegyipari Muszaki Egyetem (for Toth).

The state of the s

KARTASHOV, I.N., inzh.; GULIDA, E.N., inzh.

Vibration of a gear-milling machine set up on a foundation without fastening. Mashinostroenie no. 2:69-70 Mr-Ap '64.

(MIRA 17:5)

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SOV/112-59-3-4318

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 3, p 7 (USSR)

AUTHOR: Gul'denbal'k, A. P.

TITLE: Analogy Between the Descriptions of Processes in Some Inductively Coupled Circuits and Those in a Circuit with Series-Connected rLC (Analogiya v opisanii protsessov nekotorykh induktivno svyazannykh tsepey i tsepi s posledovatel nym sovedineniyem rLC)

PERIODICAL: Nauchno-tekhn. inform. byul. Leningr. politekhn. in-t, 1957, Nr 11, pp 34-43

ABSTRACT: An analogy between the equations of some simple inductively coupled circuits and those of a series-connected rLC circuit is presented. A method is indicated for setting up the current equations in some branches of inductively-coupled circuits on the basis of a known current equation in the rLC circuit.

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SOV/144-59-5-4/14

AUTHOR:

Gul'denbal'k, A.P., Assistant

TITIE:

Application of the Hall Effect in the Study of Electro-

Magnetic Processes ... Electric Circuits

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektro-

mekhanika, 1959, Nr 5, pp 24 - 37 (USSR)

ABSTRACT: It is shown that the Hall effect may be used to measure non-uniform magnetic fields. An analysis of eddy currents in Hall probes is carried out. Formulae are obtained which may be used in the design of Hall probes in which eddy currents are taken into account. Relations are obtained between the frequency and the maximum magnetic induction on the one hand, and the dimensions and the specific electrical conductivity of the substance of the material of the probe on the other. It is shown that germanium is the most suitable substance for Hall probes working in high frequency magnetic fields. The author's

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main interests lie in the capacitor discharge welding

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Application of the Hall Effect in the Study of Electromagnetic Processes in Electric Circuits

transformers. It is shown that HgSe Hall probes are suitable for studying the magnetic flux in capacitor discharge welding transformers as a function of time. The magnetic flux was studied by inserting the Hall probe into a gap in the transformer core as shown in Figure 9. Thin film probes were found to be the most suitable. O. D. Yelpat yevskayat, M.P. Zaytsevy, L.R. Herman and I.A. Zaytsev are thanked for their assistance. There are 17 figures, 2 tables and 21 references of which 1 is German, 4 are English and the rest Soviet.

ASSOCIATION: Kafedra teoreticheskoy i obshchey elektrotekhniki, Ieningradskiy politekhnicheskiy institut (Chair of Theoretical and General Electrical Engineering, Leningrad Polytechnical Institute)

SUBMITTED: March 21st, 1959.

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Card 2/2 **VNIIESO

AKSEL'ROD, Feliks Aronovich; GUL'DENBAL'K, Aleksey Pavlovich;
ZAYTSEV, Mikhail Pavlovich; YURINOV, V.M., nauchnyy red.;
BONDAROVSKAYA, G.V., red.; PERSON, M.N., tekhn. red.

[Fundamentals of electrical engineering and electronics; a manual for electric welders] Osnovy elektrotekhniki i elektoniki; dlia elektrosvarshchikov. Moskva, Vses. uchebnopedagog. izd-vo Proftekhizdat, 1961. 183 p. (MIRA 15:2)

(Electric engineering) (Electronics)

(Electric welding-Handbooks, manuals, etc.)

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S/125/61/000/005/006/016 A161/A127

AUTHORS:

Gul'denbal'k, A. P., Zaytsev, M. P.

TITLE:

A ferromagnetic converter with a Hall pickup for measurements of se-

condary currents in resistance welding

PERIODICAL: Avtomaticheskaya svarka, no. 5, 1961, 49 - 54

The authors give a description of a ferromagnetic converter with a TEXT: Hall pickup. It presents an improved version of a PTC-1 (RTS-1) welding current recorder [Ref. 4: M. P. Zaytsev, I. A. Rozov, Registratsiya svarochnogo toka s ispol zovaniyem effekta Kholla (Recording welding current using the Hall effect), VINITI, 1959] that had been developed using data of studies carried out at VNIIESO [Ref. 2: M. P. Zaytsev, I. A. Rozov, "Vestnik elektropromyshlennosti", no. 5, 1958]. The Hall pickup in the RTS-1 had the shape of a sonde that has to be placed close to the conducting element of the secondary circuit of the welding machine. The outer magnetic fields caused errors and difficulties, and the sonde-pickups could only be used for recording currents beginning with 4,000 amp. The new design is combined with a special ferromagnetic converter. It permits the measurement of secondary currents regardless of the effect of magnetic materials and outer magnetic

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A ferromagnetic converter with a Hall pickup for...

fields. The converter is a ring core made of band or sheet metal with a high magnetic inductivity and provided with one or several air gaps. The converter amplifies the signal from the pickup by about 20 times, which permits oscillograph records of secondary currents with maximum \(\frac{4}{2000},000 \) amp in the pulse. It is stated that pickups of indium arsenide have lower temperature sensitivity than pickups of other materials (0.02 - 0.08% per 1°C), and that the pickup core can have one air gap only if the main purpose is to amplify the signal whereas the effect of magnetic materials and changes in the secondary circuit are excluded. Otherwise the pickups must be provided with several gaps, as described by F. Kunrt, K. Maaz [Ref. 8: Messung hoher Gleichströme mit Hallgeneratoren, ETZ-A, vol. 76, no. 14, 487, 1956]. The article includes the calculation of the system. Results of some experiment measurements with the converter are given. There are 8 figures and 8 references: 7 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M. I. Kalinina (Leningrad Polytechnic Institute im. M. I. Kalinin) (A. P. Gul'denbal'k);

VNIIESO (M. P. Zaytsev)

SUBMITTED: December 14, 1960

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